

What is claimed is:

1. A patterning apparatus for an electroluminescent display, comprising:
a molding plate provided with a plurality of convex portions and concave portions;
a polymer supplying roller adjacent to the molding plate to apply an
electroluminescent material to the molding plate via rotational movement; and
a molding roller attached to the molding plate to apply the electroluminescent
material on the molding plate to an adjacent substrate via rotational movement.
2. The patterning apparatus according to claim 1, wherein each of the convex
portions includes a land having a shape of stripe and extending linearly across a surface of
the molding plate.
3. The patterning apparatus according to claim 1, wherein each of the convex
portions includes a land having a small rectangular form.
4. The patterning apparatus according to claim 1, wherein each of the convex
portions includes a land having a shape corresponding to a pixel pattern.
5. The patterning apparatus according to claim 2~4, wherein a surface of the
land contains a plurality of minute indentations.

6. The patterning apparatus according to claim 1, wherein the substrate includes a barrier rib for preventing electroluminescent material from spreading.

7. The patterning apparatus according to claim 6, the barrier rib is positioned between the pixels adjacent to each other and formed in a shape of stripe.

8. The patterning apparatus according to claim 6, the barrier rib is positioned between pixel and pixel, and formed in a shape of lattice.

9. A method of patterning an electroluminescent display, comprising:
providing a molding plate with convex and concave portions on a molding roller;
applying an electroluminescent material to the land of the convex portions of the molding plate; and
printing the electroluminescent material from the molding plate onto a substrate by rotating the molding roller so that a land on each convex portions contacts the substrate.

10. The method according to claim 9, wherein the applying and printing steps are repeated to form red, green and blue pixel patterns on the substrate.

11. The method according to claim 9, further comprising:
forming pixel electrodes between the barrier ribs; and
forming barrier ribs between said pixel electrodes for preventing a membrane spread of the electroluminescent material,

wherein the printing step deposits the electroluminescent material on the pixel electrodes.

12. The method according to claim 11, wherein each of the barrier ribs defines a boundary between pixels.

13. The method according to claim 11, wherein an upper portion of the barrier rib overlaps an edge of a pixel electrode.

14. The patterning method according to claim 11, wherein a height of the barrier rib is larger than a combined thickness of an adjacent electroluminescent material and pixel electrode.

15. The patterning method according to claim 11, wherein a material of the barrier rib is selected from any one of SiN_x and SiO_2 .

16. The patterning method according to claim 11, wherein a material of the barrier rib is selected from any one of a polyimide and an acryl-group organic compound.

17. The patterning method according to claim 9, wherein the electroluminescent material includes a polymer solution.

18. The method according to claim 9, wherein the applying step includes:

coating a supply roller with the electroluminescent material; and
rotating both the supply roller and the molding roller so that the land on each
convex portions contact the electroluminescent material on the supply roller.

19. The method according to claim 18, wherein the coating step includes:
causing the electroluminescent material to have a uniform thickness on the supply
roller.

20. The method according to claim 11, the barrier rib is positioned between the
pixels adjacent to each other and formed in a shape of stripe.

21. The method according to claim 11, the barrier rib is positioned between
pixel and pixel, and formed in a shape of lattice.